MARKED-UP REPLACEMENT SPECIFICATION

ENTER SUB. SPEC.
BY 4/10/06

Dual Boss Shutter Slat with Retention Plate

Background of the Invention

Field of the Invention

The present invention relates to shutters and in particular to shutters of the roller type having improved resistance to storms and break-ins. Furthermore, this invention relates to a shutter having improved retraction capability.

Description of the Related Art

Conventional roller shutters are designed to provide security from break-ins or protection from storms. The shutters must maintain appropriate structural integrity while extended in order to provide security and protection, but the design of a roller shutter must also allow a user to conveniently extend or retract the shutter on demand. Even though conventional roller shutters may need to be extended and retracted frequently or unexpectedly, such shutters have been prone to jam and/or snag. In addition, various factors influence the strength of a shutter and its ability to withstand forces of nature and attempts by intruders to break in through the aperture enclosed by the shutter. The material choice for fabrication of the shutter is one such factor, as is the type of articulation between shutter slats. In addition, a shutter may be strengthened by increasing surface area contact of each shutter slat with a guard, typically a track that runs the full length of the building aperture covered by the shutter. Unfortunately, this surface area is limited by the requirement that the slats of a roller shutter must be capable of conforming to a roll, for convenient storage.